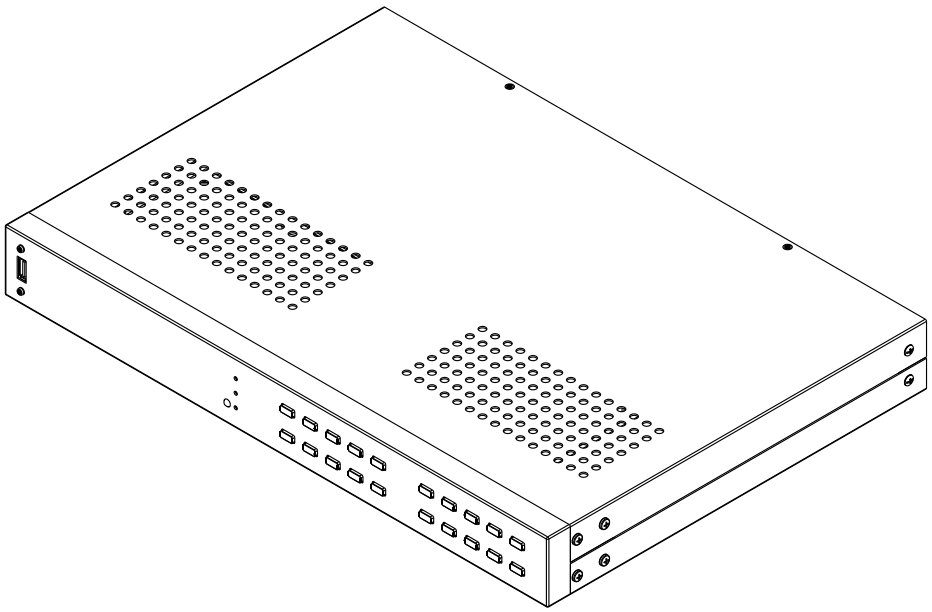
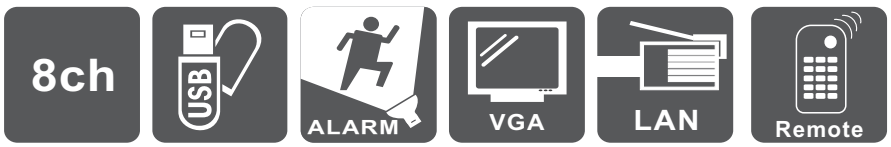
8CH STANDALONE DVR

USER MANUAL



2009 FEB. Ver1.0



HDD COMPATIBLELIST

Suggest to install the hard drive listed below to make sure the compatibility.

SATA

Brand	Maxtor	Seagate	HITACHI	WD
Capacity/ Model no	250GB	250GB	250GB	250GB
	STM3250310AS	ST3250824AS	HDT725025VLA380	WD2500AAJS
	320GB	320GB	320GB	320GB
	STM3320820AS	ST3320620SV	HDT725032VLA360	WD3200AAKS
	500GB	500GB	500GB	500GB
	STM3500630AS	ST3500320SV	HDT725050GLA360	WD5000AAKS
			750GB	750GB
			HDS721075KLA330	WD7500AAKS
			1TB	1TB
			HDS721010KLA330	WD10EACS

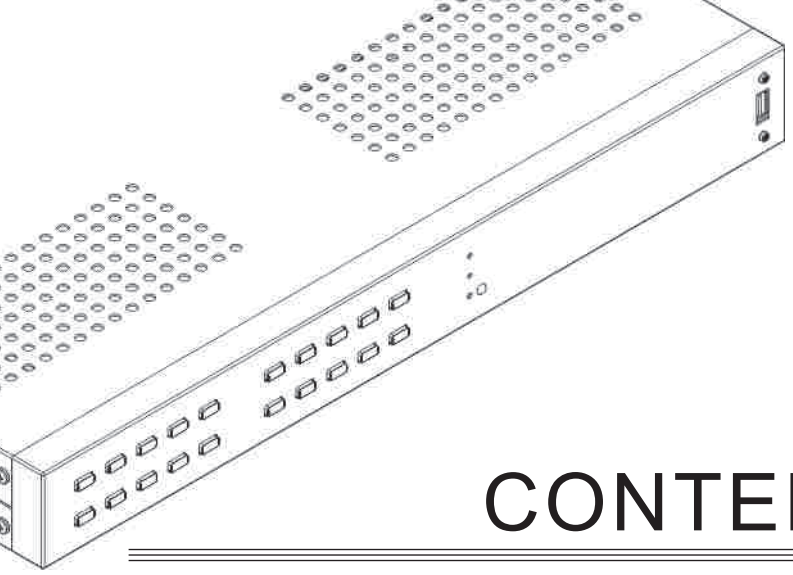
The hard drive below is not recommended.

SATA	
Brand	Seagate
Capacity/	750GB
Model no	ST3750330AS

USB Drive Compatible List

Below listed USB drive is recommended.

Brand/Capacity	Backup	Palyback
A-DATA / 1G	PASS	PASS
A-DATA / 4G	PASS	PASS
A-DATA / 8G	PASS	PASS
Transcend / 1G	PASS	PASS
Transcend / 4G	PASS	PASS
Transcend / 8G	PASS	PASS
SanDisk / 4G	PASS	PASS
SanDisk / 8G	PASS	PASS
SONY / 4G	PASS	PASS
SONY / 8G	PASS	PASS



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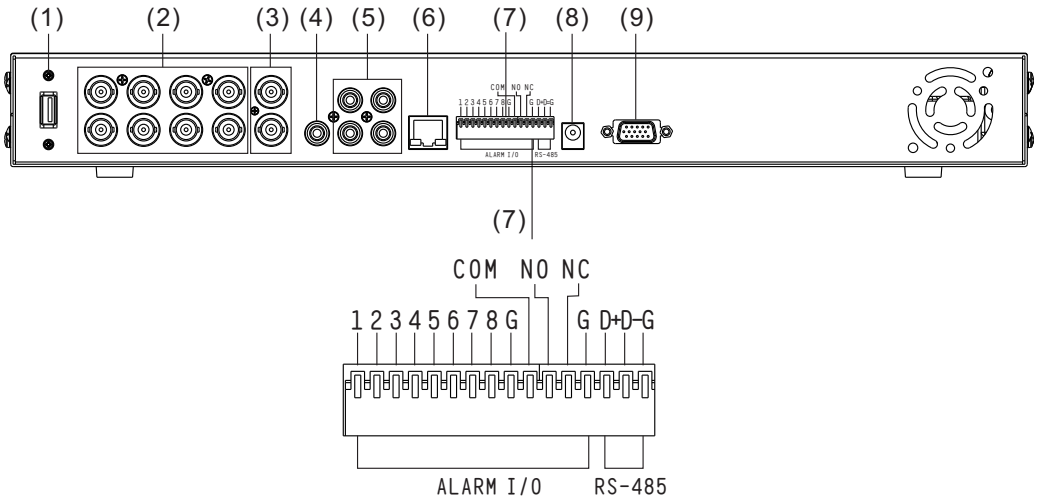
A. FEATURES

1.Triplex Standalone(Record / Playback / Network).
2.Recording speed 60/50fps.
3.Support flash slot USB archiving.
4.Screen position adjustable.
5.NTSC / PAL system compatible.
6.Advance video compression MPEG.
7.Manual / Motion / Programmed recording modes.
8.Automatically recording while alarm triggered.
9.Playback search by Time / Date / Event List modes.
10.Watch Dog.
11.HD usage rate indicator.
12.Motion detection.
13.Support Audio recording (4 Input 10utput).
14.Support SATA HD.
15.Auto Sequence Switching of channels.
16.Support PTZ(Pan/Tilt/Zoom) control.
17.Support Alarm Input (8 Input,10utput).
18.Support Mouse OSD control.
19.LAN (TCP/IP,DHCP).
20.CD/DVD-RW Backup (Option).
21.IR remote controller (Option).
22.VGA output (Option).

B . SPECIFICATION

Video System	NTSC/PAL		
Operating System	Embedded RTOS		
VGA output	D-SUB 15P VGA(OPTION)		
Video Input	8 x (1Vp-p 75 ohm) BNC		
Audio Input	4 x RCA		
Video Output	2 x (Monitor Out) BNC		
Audio Output	1 x RCA		
OSD interface	OSD、Multi-Language		
Display Frame	NTSC	240fields/S (8x30 fields/S)	
	PAL	200fields/S (8x25 fields/S)	
Recording Frame	NTSC	60 fps	
	PAL	50 fps	
Triplex	Record / Playback / Network		
Video resolution	Display	NTSC	640x448
		PAL	640x544
	Recording	NTSC	640x224
		PAL	640x272
Video Compression	Modified MJPEG	Normal	
		High	
		Highest	
Hard Drive Storage	SATA HDD X 1		
Backup Device	Host USB,CD/RW,DVD(Option)		
Playback Search	Mode	Time / Date / Event List	
	Full Screen	YES	
Alarm Input	8 Input , 1 Output		
Motion Detection	YES		
Video Loss Detection	YES		
Auto Switching	YES		
Buzzer Output	YES		
Brightness Adjustable	YES		
Contrast Adjustable	YES		
VGA Output Resolution	800x600/1024x768/1280x720/1280x1024		
Mouse Control	YES		
P/T/Z Control	YES		
Watch Dog	Auto Power Recovery		
LAN	MPEG4(TCP/IP,DHCP)		
Power Supply	DC 12V / 4A(AC100V~240V 50/60HZ)		

C . INSTALLATION



(1) MOUSE PORT.

(2) VIDEO IN.

(3) VIDEO OUT.

(4) AUDIO OUT.

(5) AUDIO IN.

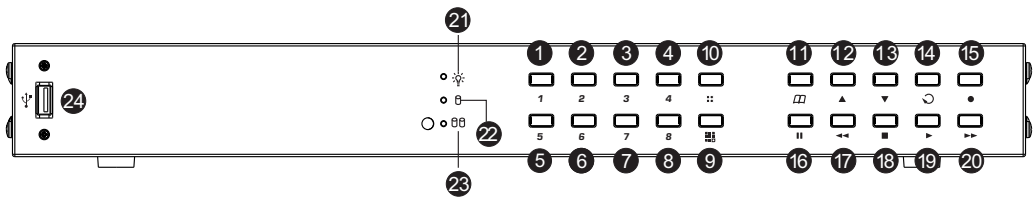
(6) LAN.

(7) 1~8:ALARM IN.
G:GROUND.
COM:Relay COM output.
NO:Relay N.O. output.
NC:Relay N.C. output.
D+ 、D-:RS-485.

(8) POWER INPUT:Please use the power supply enclosed.
The adaptor must be:DC-12V / 4A.

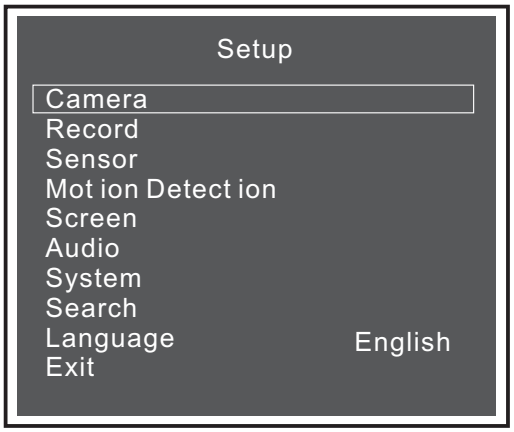
(9) XGA Output.

D. FRONT PANEL



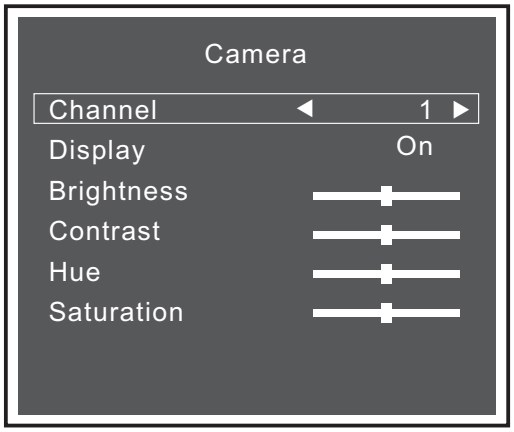
1. Full Display of CH1
2. Full Display of CH2
3. Full Display of CH3
4. Full Display of CH4
5. Full Display of CH5
6. Full Display of CH6
7. Full Display of CH7
8. Full Display of CH8
9. 8-division display.
10. 4-division display.
11. MENU：Press this button to enter menu or save the setting and exit.
12. ▲ UP selection / setup the time of backup.
13. ▼ Down selection / setup the time of backup.
14. Select/ Enter.
15. ● RECORD the live display (Manual Record).
16. ▮▮ PAUSE the playback.
17. ◄◄ Fast Rewind of playback / MUTE ON Live Mode.
18. ■ STOP playback then back to live Mode.
19. ► Playback.
20. ►► Fast Forward of playback / Auto Switching.
21. Power Indictor.
22. Master HD indictor: Light up while Master HD working.
23. Slave HD indictor: Light up while Slave HD working.
24. USB SLOT for backup.

E. SETUP MENU(OSD)



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↩ to enter and set up.
Press MENU to save the setting and exit.

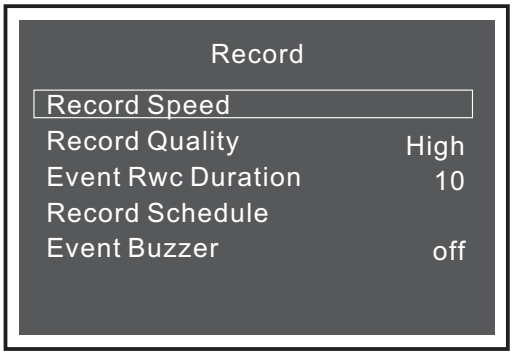
Camera Setup



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↩ to enter and set up.
Press MENU to save the setting and exit.

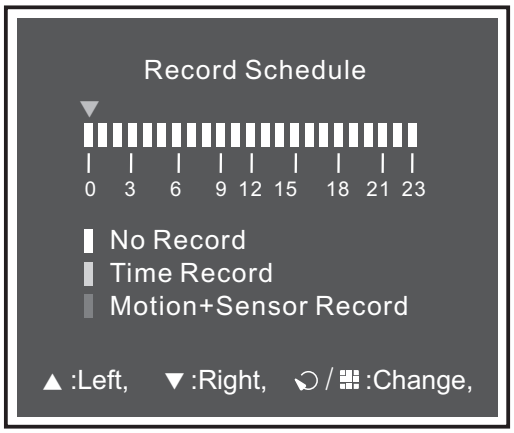
(1) Channel:Select the Channel you want to setup.
(2) Display:ON/OFF Display for CH selected.
(3) Brightness/Contrast/Hue/Saturation setup.

Record Setup



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↺ to enter and set up.
Press MENU to save the setting and exit.

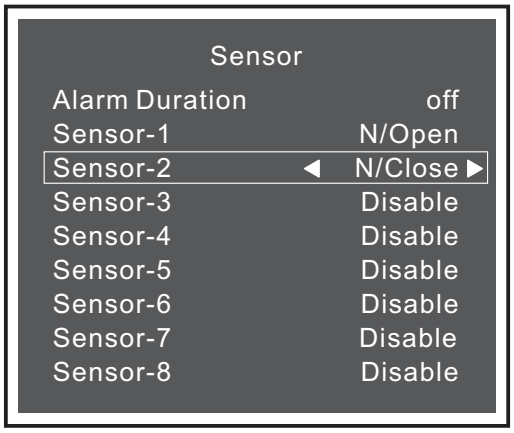
(1)Record Speed.
NTSC:Defaulted on 7fps per channel,total 60fps/8CH.
PAL:Defaulted on 6fps per channel,total 50fps/8CH.
(2)Record Quality:Video quality at levels of Higest/Hight/Normal.
(3)Event Rec Duration:defaulted on 10 seconds. 5/10/15/20/25/30 secs available.
(4)Record Schedule:



(1)Press▲▼ to select left and right of time ↺ to change the rec. status. ▦ Press to change all rec status.
(2)Time range 0~24 hours.
(3)Red marker as Full Time Record status.
(4)Gray marker as No Record status.
(5)Yellow/Green marker as Motion + Sensor Record status.

(5)Event Buzzer:Buzzer duration when Alarm or Motion is triggered.

Sensor



★ Alarm Duration：Select the Duration time after trigger.

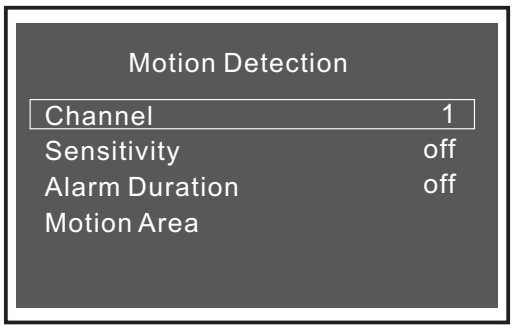
★ Press ▲▼ to select the sensor and press ↺ or ◄◄ ►► to enter and setup.

★ Disable:Disable trigger by Alarm.

★ N/Open:Alarm device is Nornal Open Mode.

★ N/Close:Alarm device is on Normal Close Mode.

Motion Detection



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↺ to enter and set up.
Press MENU to save the setting and exit.

(1)Channel:Select the camera to setup

(2)Sensitivity:Level range 1~4
(defaulted as Off,level 1 as the most sensitive).

(3)Alarm Duration:defaulted as Off. Adjustable 5、10、15、20、25、30 seconds、CONT(continuous).

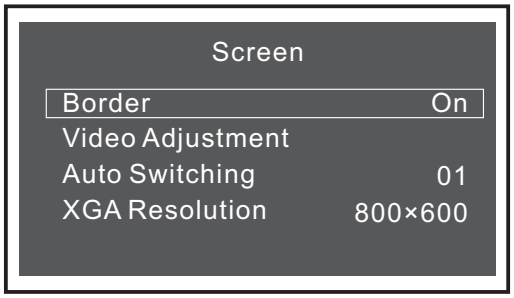
(4)Motion Area setup.

★ Please apply following a & b steps before setting Motion Area.

a:Setup Sensitivity in “Motion Detection”

b:Select Motion + Sensor Record status in “Record Schedule”

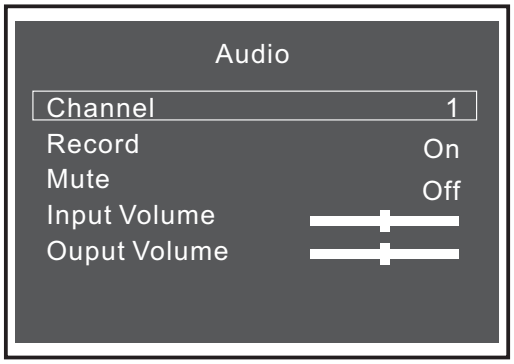
Screen



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↩ to enter and set up.
Press MENU to save the setting and exit.

(1) Border:Division mode with or without white border(ON/OFF).
(2) Video Adjustment:To adjust screen Position(Up/Down/Right/Left).
(3) Auto Switching:The duration of each channel during Auto Switching.
Range:1~10 seconds.It must be selected 01 at least to enable auto switching.
(4) XGA Resolution 800 x 600 / 1024 x 768 (defaulted) /1280 x 720 / 1280 x 1024.

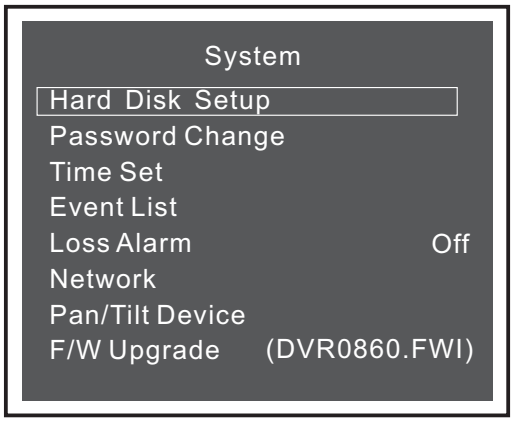
Audio



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↩ to enter and set up.
Press MENU to save the setting and exit.

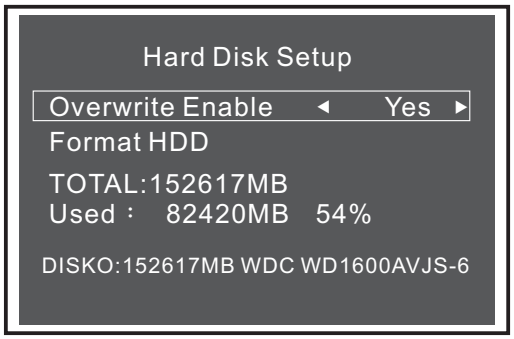
(1)Channel:Select the channel that you want to record the audio.
(2)Record:On / Off.
(3)Mute:On / Off.
(4)Input Volume.
(5)Output Volume.

System



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↺ to enter and set up.
Press MENU to save the setting and exit.

(1)Hard Disk Setup



(1.1)Overwrite Enable:

When HDD capacity is full, set:
Yes:HDD will be overwritten (continue recording)
NO: Stop the recording.

(1.2)Format HDD:

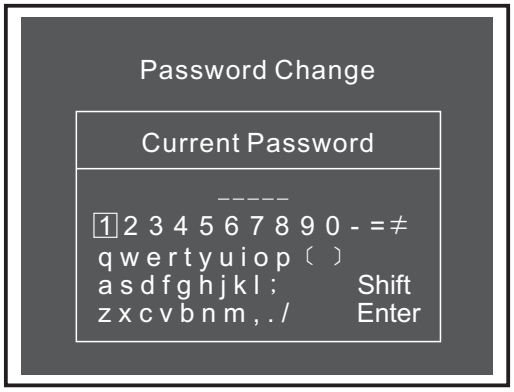
When enter this setting,it requests 6 digital password input.
If password is correct,the HDD will be formatted.If not,it will say "Password Incorrect"

(1.3)HDD Status:

This tells the usage status of HDD,including HDD total capacity and the percentage used.

★ Default Password is 111111.
★ When installing a new HDD,please format HDD as the first step.

(2)Password Change



Current Password: _____

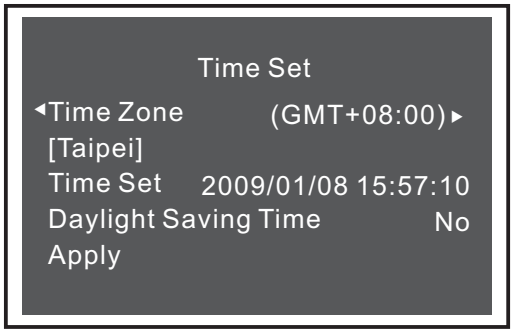
New Password: _____

Confirm Password: _____

★ If the current password was given incorrectly,it will say " Password Incorrect"

★ Default Password is 111111.

(3)Time Set



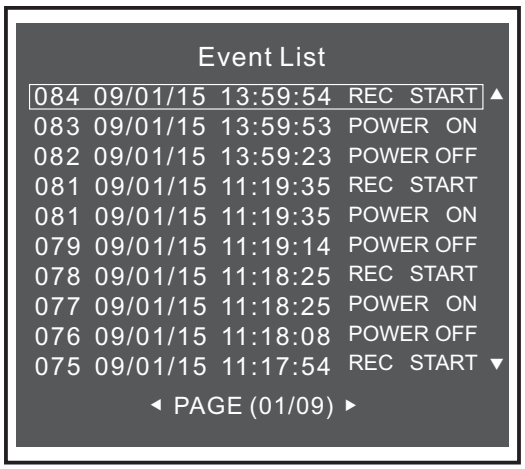
(3.1) Time Zone:Select the time zone at your end.

(3.2) Time Set;Setup time,year/month/date hour/minute/second.

(3.3) Daylight Saving Time:Yes/No.

(3.4) Apply:It will be update the time set.

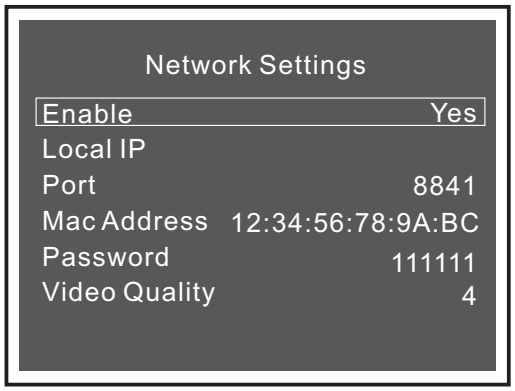
(4)Event List



(4.1)Playback by searching an event from Event List.
(4.2)TIME: Each event is recorded and listed every four hours automatically.
(4.3)MOTION:Motion even List.
(4.4)SENSOR:Sensor even list.

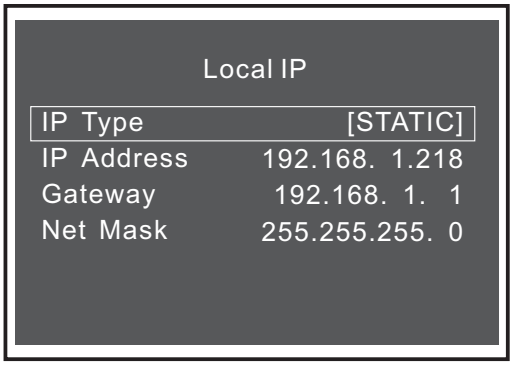
(5)Loss Alarm:set buzzer ON/OFF in case of the video loss.

(6)Network Settings



Press ▲▼ to do the selection
Press ◄◄ , ►► or ↺ to enter and set up.
Press MENU to save the setting and exit.

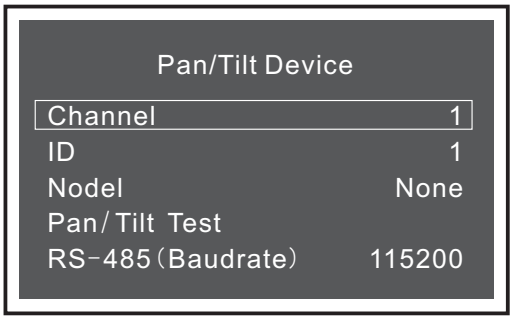
(6.1)Enable:YES/NO to enable or disable the network.
(6.2)Local IP:Setup Local IP.



IP TYPE:DHCP/STATIC.
IP ADDRESS:Setup the IP address.
GATEWAY:Default Gateway.
NET MASK:Setup the NET MASK.

(6.3)Port:Setup network port.
(6.4)Mac Address.
(6.5)Password:Password (default 111111) for review in remote.
(6.6)Video Quality:Setup the video quality level. There are 1~5 levels and 5 is the best quality.

(7)Pan/Tilt Device



(7.1)Channel:Select the channel with PTZ device.
(7.2)ID:Set the ID the same with PTZ device.
(7.3)Model:The protocol could be NONE、Pelco D、Pelco Por MERI LI-LIN.
(7.4)Pan/Tilt Test:Enter the test of PTZ.
(7.5)RS485(Baudrate):Set the baudrate.
(7.6)Select the PTZ channel on live ⏸ to enter PTZ Mode. Then Press ↻ to select Direction,focus, Zoom and brightness setting. After change setting,click “pause” to exit.

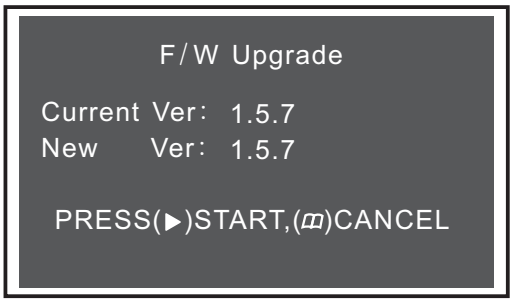
: Focus:Press ▲▼ or ◄◄ ►► to setup.

: Zoom In/Out:Press ▲▼ or ◄◄ ►► to setup.

: Up/Down/Right/Left:Press ▲▼ or ◄◄ ►► to setup.

: Brightness:Press ▲▼ or ◄◄ ►► to setup.

(8)Firmware Upgrade

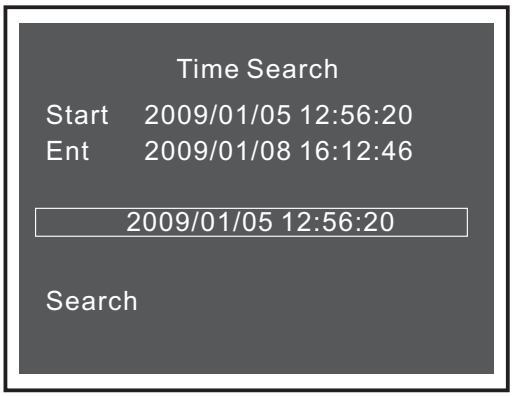


Save updated firmware on the USB device and plug it on DVR.
Before starting,the current version and new version will been shown on screen.

★ To prevent from system error,please do not remove USB device while firmware is updating. DVR must reboot after firmware update.

★ HDD must be installed to support firmware update running.

Time Search

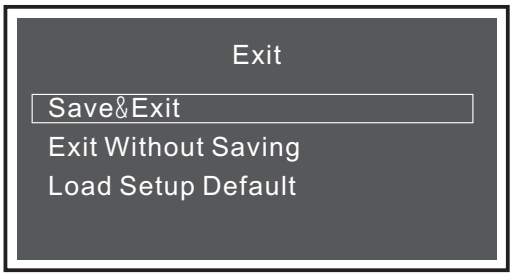


(1)Select the start date and time to playback the video.

(2)During the playback:

- ►► Fast forward of playback. Click twice for X 2 speed and 3 times for X3 speed.
- ◄◄ Fast rewind of playback. Click twice for X 2 speed and 3 times for X3 speed.
- Press ❚❚ to pause the playback.
- Press ■ to stop the playback.

Exit

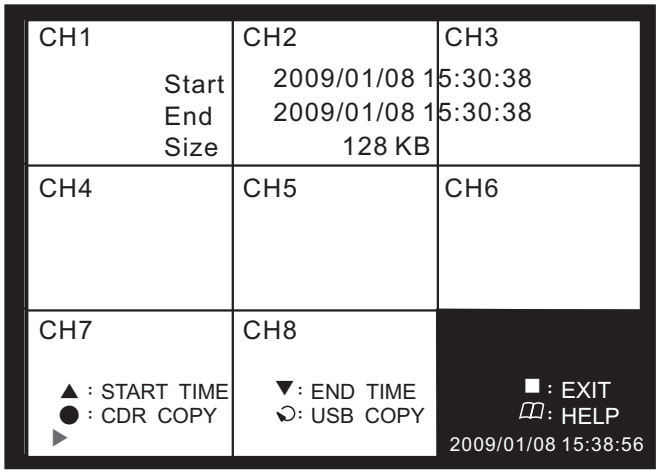


(1)Save & Exit:Save all setting and exit menu.

(2)Exit Without Saving:Exit menu without saving any changes of setting.

(3)Load Setup Default:Run all setting to be the defaults.

F.BACKUP



(1)Plug USB device into USB slot in front panel of DVR.

(2)Press " ▶ " to playback and search/select the video.

(3)Press " 🕮 " to enter the backup menu.

(4)Press " ▲ " to choose the start time of backup.

(5)Press " ▼ " to choose the end time of backup (it will come out with the data capacity of chosen time between start and end).

(6)Press " ↻ " to start backup.

(7)Or press " ● " to start backup by CD-RW.

(8)Press " ■ " to back to live mode after completing the backup.

G.RECORD

When DVR is recording(by time, motion or Sensor), the mark ● will be shown on the upper right corner of each channel on screen.

H.RECORDING HOURS
(BASED ON 400GB HDD, TIME RECORDING)

★ Following data is reference only.

In NTSC system		60fps	30fps	15fps	3fps
Video Signal	Video quality				
NTSC	Highest	45hours	90hours	180hours	900hours
	High	75hours	150hours	300hours	1500hours
	Normal	95hours	190hours	380hours	1900hours
In PAL system		50fps	25fps	12fps	3fps
Video Signal	Video quality				
PAL	Highest	45hours	90hours	180hours	900hours
	High	70hours	140hours	280hours	1400hours
	Normal	90hours	180hours	360hours	1800hours

I.DVR Viewer User Guide

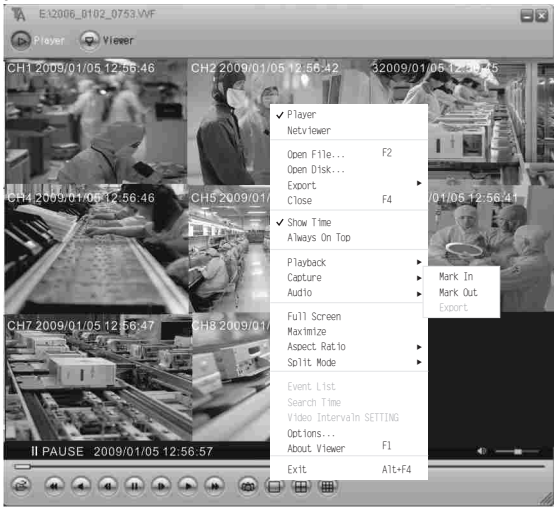
★ Minimum System Requirements：
1.CPU - 1GHz
2.RAM - 1GB
3.Video Card - Video RAM 512MB (NVIDIA GEFORCE 8400 GS)

1.File playback

(1.1) Execute the VVF Player.

(1.2) Click the right button of mouse control. Select and click “OpenFile”to get the file you want to playback. The file format must be .vvf format.

2.Capture film



(2.1)Playback the file and select the video wanted to capture. Click “Pause” at video you want to start to capture.

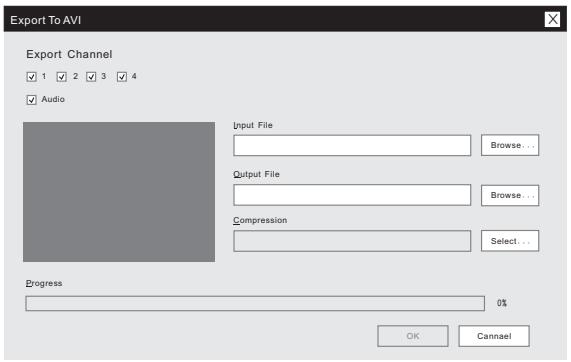
(2.2)Then,click the right button of mouse control and select [Capture] / [Mark In] as start point.

(2.3)Then Click the play again,then Click “pause” at the frame you want to end the capture.

(2.4)Click the right button of mouse control and select [Capture] / [Mark Out] to end the capture.

(2.5)Click the right button of mouse control and [Capture] / [Export] to finish the exportation.

3.Export To AVI

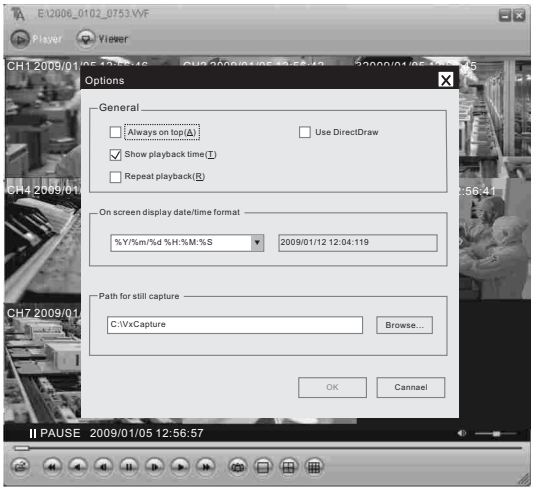


(3.1) Click the right button of mouse control and select [Export] / [AVI].

(3.2) Set Input/Output File、Compression of audio for channels selected.

(3.3) Click OK to start convert the file to AVI format.

4.Options



(1)Always on top:Screen always keeps on top.

(2)Use DirectDraw:To get support of DirectX in Windows.

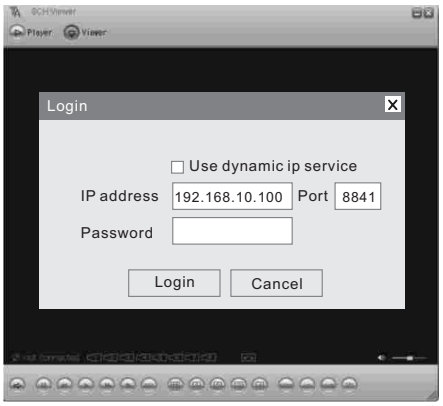
(3)Show playback time.

(4)Repeat playback.

(5)On screen display date/time format.

(6)Path for still capture:It's the file path where the pictures (captures) are saved in your computer.

5.Login



(1)Execute the Viewer and click ⇨ at bellow-listed functions to login and access the DVR live display.

(2)Use dynamic ip service:Click it if you're using the Dynamic IP service.

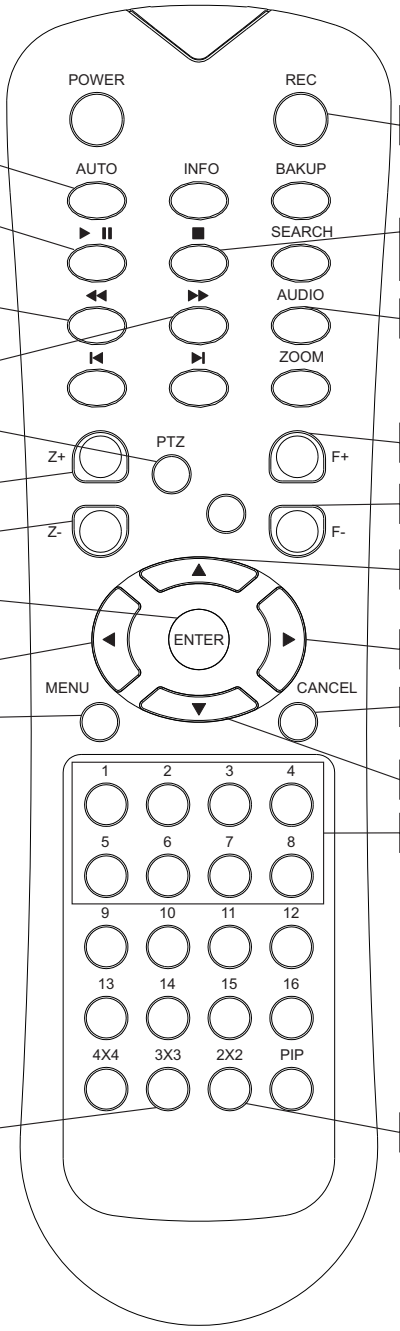
(3)IP address:Key in the DVR address.

(4)Port:DVR com port.

(5)Password:Key in the password (default:111111).

(6)An icon ⇌ will be displayed on bottom of screen when your login is succeed.

J.REMOTE CONTROL



AUTO:auto sequence CH switching.

▶ ⏸ : Playback and Pause .

◀◀ :Fast rewind.

▶▶ :Fast forward.

PTZ:PTZ setup.

Z+:P T Z Z o o m in.

Z - :P T Z Z o o m out.

E N T E R:Enter into the selection of the MENU.

◀:Left Selection.

M E N U:Enter MENU / or save and exit MENU.

3×3:9-division in display.

REC:Full time record for all channels.

■ :Stop the playback and return to live display.

AUDIO : Mute.

F+: PTZ f o c u s +.

F - :P T Z F o c u s -.

▲:UP Selection.

▶ : Right Selection.

CANCEL:Exit current menu without saving.

▼:Down Selection.

Channels 1-8.

2×2:4-division in display.